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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,953	07/07/2003	Masanori Taketsugu	053969-0155	6605

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EXAMINER	
REGO, DOMINIC E	
ART UNIT	PAPER NUMBER
2684	

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/612,953	TAKETSUGU, MASANORI	
	Examiner	Art Unit	
	Dominic E. Rego	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *07 July 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-13* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-13* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *02/18/2004*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Crosbie *(US Patent Application Publication #20020035699).*

Regarding claim 1, Crosbie teaches a wireless access control method using a mobile terminal *(Figure 1, elements 28-1,28-2 and 28-3)*, a wireless base station for communications with the mobile terminal through a wireless channel *(figure 1, element 24)*, an access network control station for control of a wireless access network by communications with the mobile terminal *(figure 1, element 34 is an access network control station for control of a wireless access network by communications with the mobile terminal)*, and a wireless access gateway for establishing a channel between the mobile terminal and the equipment external to the wireless access network *(figure 1, element 22 is a wireless gateway for establishing a channel between the mobile terminal 28-3 and the equipment external to the wireless access networks 36 and 38)*, comprising the steps of:

the mobile terminal transmitting to the wireless base station a wireless control signal to be transmitted to equipment external to the wireless access network (Figure 1, the mobile terminal 28-3 transmitting to the wireless base station 24 a wireless control signal to be transmitted to equipment external to the wireless access networks 36 and 38);

the wireless base station transferring the wireless control signal to the wireless access gateway without converting the signal (Figure 1, the wireless base station 24 transferring the wireless control signal to the wireless gateway 22 without converting the signal);

when the wireless control signal is transferred from the wireless access gateway (Figure 1, elements 22 to 34), the access network control station (Figure 1, element 34) communicating with the mobile terminal through the wireless base station (Figure 1, elements 28-3 to base station 24), and determining whether or not communications with equipment external to the wireless access network of the mobile terminal is allowed based on the communications between the station and the mobile terminal (Paragraphs: 0028, 0029 and 0030);

when the access network control station allows (Paragraph 0030, RADIUS) the communications of the mobile terminal with the equipment external to the wireless access network, the access network control station instructing the wireless access gateway to establish a channel between the mobile terminal and the wireless access network (Paragraphs: 0028, 0029 and 0030); and

upon receipt of the instruction from the access network control station *(Figure 1, element 34)* to establish a channel between the mobile terminal and the equipment external to the wireless access network (Figure 1, element 28-3 and elements 36 and 38), the wireless access gateway establishing the channel between the mobile terminal and the equipment external to the wireless access network, and transmitting the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029 and 0030).

Regarding claim 2, Crosbie teaches the wireless access control, further comprising the step of

when the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access network, the wireless access gateway instructing the wireless base station to establish a dedicated channel between the mobile terminal and the wireless access gateway in a wireless region (Paragraph:0030,0062).

Regarding claim 3, Crosbie teaches the wireless access control, further comprising the step of

when the wireless control signal is transferred from the wireless base station, and when the wireless access gateway determines that a source of the wireless control signal is not allowed to communicate with equipment external to the wireless access network, the wireless access gateway changing a destination of the wireless control

signal to the access network control station, and transferring the wireless control signal to the access network control station (Paragraphs: 0028, 0029 and 0030).

Regarding claim 4, Crosbie teaches the wireless access control, further comprising the step of

when the wireless control signal is transferred from the wireless base station, and when the wireless access gateway determines that a source of the wireless control signal is allowed to communicate with equipment external to the wireless access network, the wireless access gateway not changing a destination of the wireless control signal to the access network control station, establishing a channel between the mobile terminal and equipment external to the wireless access network, and transmitting the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029,0030 and 0062).

Regarding claim 5, Crosbie teaches the wireless access control, further comprising the step of

when the wireless control signal is transferred from the wireless base station, and when the wireless access gateway determines that a shared control channel different from the dedicated channel is used in communications of the wireless control signal, the wireless access gateway changing the destination of the wireless control signal into the access network control station, and transferring the wireless control signal into the access network control station (Paragraphs: 0028, 0029,0030,0062 and

0063).

Regarding claim 6, Crosbie teaches the wireless access control, further comprising the step of

when the wireless control signal is transferred from the wireless base station, and when the wireless access gateway determines that the dedicated channel is used in communications of the wireless control signal, the wireless access gateway not changing the destination of the wireless control signal into the access network control station, establishing a channel between the mobile terminal and equipment external to the wireless access network, and transmitting the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029,0030 and 0062).

Regarding claim 7, Crosbie teaches a wireless access system, comprising:

a mobile terminal for transmitting a wireless control signal to be transmitted to equipment external to the wireless access network (Figure 1, the mobile terminal 28-3 transmitting to the wireless base station 24 a wireless control signal to be transmitted to equipment external to the wireless access networks 36 and 38);

a wireless base station for transferring the wireless control signal from the mobile terminal without conversion (Figure 1, the wireless base station 24

transferring the wireless control signal to the wireless gateway 22 without converting the signal);

a wireless access gateway for further transferring the wireless control signal (Figure 1, a wireless access gateway 24 transferring the wireless control signal to access network control station 34) when the wireless control signal is transferred from the wireless base station (Figure 1, elements 22 to 34), and when it is determined that a source of the wireless control signal is not allowed to communicate with equipment external to the wireless access network (Paragraph 0030); and

an access network control station for instructing the wireless access gateway to establish a channel between the mobile terminal and equipment external to the wireless access network when communications are performed with the mobile terminal through the wireless base station when the wireless control signal is transferred from the wireless access gateway, and when communications between the mobile terminal and equipment external to the wireless access network is allowed based on the communications performed with the mobile terminal (Paragraphs: 0028, 0029 and 0030), wherein

when the wireless access gateway is instructed to establish a channel between the mobile terminal and equipment external to the wireless access network by the access network control station, the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access

network, and transmits the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029 and 0030).

Regarding claim 8, Crosbie teaches the wireless access system, wherein when the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access network, the wireless access gateway instructs the wireless base station to establish a dedicated channel between the mobile terminal and the wireless access gateway in a wireless region (Paragraphs: 0028, 0029 and 0030).

Regarding claim 9, Crosbie teaches the wireless access system, wherein when the wireless control signal is transferred from the wireless base station, and when the wireless access gateway determines that a source of the wireless control signal is allowed to communicate with equipment external to the wireless access network, the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access network, and transmits the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029,0030 and 0062).

Regarding claim 10, Crosbie teaches a wireless access system, comprising: a mobile terminal for transmitting a wireless control signal to be transmitted to equipment external to the wireless access network (Figure 1, the mobile

terminal 28-3 transmitting to the wireless base station 24 a wireless control signal to be transmitted to equipment external to the wireless access networks 36 and 38);

a wireless base station for transferring the wireless control signal from the mobile terminal without conversion (Figure 1, the wireless base station 24 transferring the wireless control signal to the wireless gateway 22 without converting the signal);

a wireless access gateway for further transferring the wireless control signal (Figure 1, a wireless access gateway 24 transferring the wireless control signal to access network control station 34) depending on a channel used in communications of the wireless control signal (Paragraph 0030) when the wireless control signal is transferred from the wireless base station (Figure 1, elements 22 to 34); and

an access network control station for instructing the wireless access gateway to establish a channel between the mobile terminal and equipment external to the wireless access network when communications are performed with the mobile terminal through the wireless base station when the wireless control signal is transferred from the wireless access gateway, and when communications between the mobile terminal and equipment external to the wireless access network is allowed based on the communications performed with the mobile terminal (Paragraphs: 0028, 0029 and 0030), wherein

when the wireless access gateway is instructed to establish a channel between the mobile terminal and equipment external to the wireless access network by the access network control station, the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access network, and transmits the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029 and 0030).

Regarding claim 11, Crosbie teaches the wireless access system, wherein when the wireless access gateway establishes a channel between the mobile terminal and the equipment external to the wireless access network, the wireless access gateway instructs the wireless base station to establish a dedicated channel between the mobile terminal and the wireless access gateway in a wireless region (Paragraph:0030,0062).

Regarding claim 12, Crosbie teaches the wireless access system, wherein when the wireless control signal is transferred from the wireless base station, and when a channel used in communications of the wireless control signal is a shared control channel different from the dedicated channel, the wireless access gateway transfers the wireless control signal to the access network control station (Paragraphs: 0028, 0029,0030,0062 and 0063).

Regarding claim 13, Crosbie teaches the wireless access system, wherein

when the wireless control signal is transferred from the wireless base station, and when a channel used in communications of the wireless control signal is the dedicated channel, the wireless access gateway established a channel between the mobile terminal and equipment external to the wireless access network, and transmits the wireless control signal to the equipment external to the wireless access network (Paragraphs: 0028, 0029,0030 and 0062).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jiang et al. (US Patent Application Publication #20040114553) teaches interworking mechanism between CDMA2000 and WLAN.

Lager et al. (US Patent #6,636,502) teaches GPRS-subscriber selection of multiple internet service providers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dominic E. Rego whose telephone number is 571-272-8132. The examiner can normally be reached on Monday-Friday, 8:30 am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dominic E. Rego

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